

IN THE CLAIMS

Please amend the claims as follows:

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Currently Amended) A method for detecting wear in a liner containing or bounding a flow of an abrasive fluid, comprising the steps of:

placing a ~~thermocouple~~temperature measuring device on or near the outside surface of the liner; and

monitoring the temperature measured by the thermocouple over time to estimate wear in the liner.

6. (Original) A method according to Claim 5, wherein the liner is ceramic.

7. (Currently Amended) A method according to Claim 5, wherein the ~~thermocouple~~temperature measuring device is a wire thermocouple.

8. (Original) A method according to Claim 7, wherein the wire thermocouple is placed in a zigzag pattern.

9. (Original) A method according to Claim 7, wherein the wire thermocouple is placed in a spiral pattern.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Original) A method for detecting wear in a liner containing or bounding a flow of an abrasive fluid, comprising the steps of:

creating a groove in the outside surface of the liner;

placing a wire thermocouple in the groove; and

monitoring the temperature measured by the wire thermocouple over time to estimate wear in the liner.

15. (Original) A method according to Claim 14, wherein the created groove comprises a zigzag pattern.

16. (Original) A method according to Claim 14, wherein the created groove comprises a spiral pattern.

17. (Original) A method according to Claim 14, wherein the liner is ceramic.

18. (Original) A method for detecting wear in a liner containing or bounding a flow of an abrasive fluid, comprising the steps of:

placing an electrically conductive wire thermocouple on or near the outside surface of the liner;

measuring the electrical resistance in the wire thermocouple to determine whether the wire has worn through; and

monitoring the temperature measured by the wire thermocouple over time to estimate wear in the liner.

19. (Original) A method according to Claim 18, wherein the wire thermocouple is placed in a zigzag pattern.

20. (Original) A method according to Claim 18, wherein the wire thermocouple is placed in a spiral pattern.

21. (Original) A method according to Claim 18, wherein the liner is ceramic.

22. (Original) A method for detecting wear in a liner containing or bounding a flow of an abrasive fluid, comprising the steps of:

creating a groove in the outside surface of the liner;

placing an electrically conductive wire thermocouple in the groove;

measuring the electrical resistance in the wire thermocouple to determine whether the wire has worn through; and

monitoring the temperature measured by the wire thermocouple over time to estimate wear in the liner.

23. (Original) A method according to Claim 22, wherein the liner is ceramic.

24. (Original) A method according to Claim 22, wherein the created groove comprises a zigzag pattern.

25. (Original) A method according to Claim 22, wherein the created groove comprises a spiral pattern.

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Currently Amended) A liner, comprising;

a substantially cylindrical body of a material which is susceptible of wear over a period of use; and

an electrically conductive wire thermocouple placed on or near the outside surface of the body.

31. (Canceled)

32. (Currently Amended) A liner according to Claim ~~31~~30, wherein the wire thermocouple is placed in a zigzag pattern.

33. (Currently Amended) A liner according to Claim ~~31~~30, wherein the wire thermocouple is placed in a spiral pattern.

34. (Original) A liner according to Claim 30, wherein the body is ceramic.

35. (Canceled)

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Currently Amended) A liner, comprising;

a substantially cylindrical body of a material which is susceptible of wear over a

period of use and which defines a groove in the outside surface of the body; and

an electrically conductive wire thermocouple placed inside the groove.

40. (Original) A liner according to Claim 39, wherein the body is ceramic.

41. (Original) A liner according to Claim 39, wherein the groove comprises a zigzag pattern.

42. (Original) A liner according to Claim 39, wherein the groove comprises a spiral pattern.